

Title (en)
TRANSFORMER

Title (de)
WANDLER

Title (fr)
TRANSFORMATEUR

Publication
EP 2996122 A4 20170104 (EN)

Application
EP 14794993 A 20140407

Priority
• JP 2013099504 A 20130509
• JP 2014001987 W 20140407

Abstract (en)
[origin: EP2996122A1] The present invention provides a transformer capable of readily ensuring a predetermined insulation distance with no increase in the overall size of the transformer and further capable of reducing the number of constituent parts to achieve cost reduction. According to the present invention, the transformer includes a first bobbin (10) having a wire winding section (10a) and a flange (10b) formed at an end of the wire winding section (10a), a first coil (11) wound around the wire winding section (10a) of the first bobbin (10), a second coil (12) disposed coaxially with the first coil (11) and adjacent to the flange (10b), and a core (17) disposed around the outer circumferences of the first and second coils (11, 12) to form a closed magnetic circuit, and a tubular protrusion (18) that axially extends and surrounds the outer circumference of the second coil (12) is formed along an outer circumferential portion of the flange (10b) of the first bobbin (10).

IPC 8 full level
H01F 27/32 (2006.01); **H01F 5/02** (2006.01); **H01F 27/28** (2006.01)

CPC (source: EP US)
H01F 27/2823 (2013.01 - EP US); **H01F 27/2866** (2013.01 - EP US); **H01F 27/2871** (2013.01 - US); **H01F 27/325** (2013.01 - EP US); **H01F 2005/022** (2013.01 - EP US); **H01F 2005/025** (2013.01 - EP US)

Citation (search report)
• [XAYI] DE 7105903 U 19710603
• [XAYI] US 2011221559 A1 20110915 - TSAI HSIN-WEI [TW], et al
• [XAYI] JP 2003188030 A 20030704 - DENSO CORP
• [Y] US 2012032769 A1 20120209 - PAN CHENG-YU [TW]
• [Y] US 6522233 B1 20030218 - KYOSO YASUO [JP], et al
• See references of WO 2014181497A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 2996122 A1 20160316; EP 2996122 A4 20170104; JP 2014220421 A 20141120; JP 6187806 B2 20170830; US 2016111206 A1 20160421; WO 2014181497 A1 20141113

DOCDB simple family (application)
EP 14794993 A 20140407; JP 2013099504 A 20130509; JP 2014001987 W 20140407; US 201414787376 A 20140407